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Cc: Wall, Dan[wall.dan@epa.gov]
From: Christner, Jan
Sent: Thur 8/13/2015 4:04:40 PM
Subject: Background
[Sediment Background.xlsx](#)
[Water Background Levels.xlsx](#)
[Comparison to WQS-08-10-2015 Samples.xlsx](#)
[Concentrations vs TVS.xlsx](#)

Hi, Bill.

A few notes about the background files:

- The A72 water background values were developed from concentrations measured in the Animas from 2009 through 2014. EPA and ESAT did the sampling.
 - o Samples from runoff conditions (May through July) were deleted.
 - o Total of 14 non-peak data points
 - o I used ProUCL to do the stats shown to the right on the table.
- The Bakers Bridge and 32nd Street bridge values were from both previous sampling and August 5-6 before the plume arrived.
 - o Bakers Bridge: 3 from 2012-2014 and 2 from August 5-6
 - o 32nd Street Bridge: 1 from 2012-2014 and 3 from August 5-6
- Sediment background
 - o Bakers bridge: 4 total background samples, 2 spring, 2 fall. Averages shown for both.
 - o A72: 3 spring, 2 fall. Averages shown for both.

I'm also attaching a rough spreadsheet (Concentration vs TVS.xlsx) with some early concentrations and HQs based on Colorado Table Value Standards.

- The TVS hardness based equations are programmed in so the standard we are comparing the sample result to is calculated at the sample hardness and the HQ is the concentration/standard.

- The spreadsheet was prepared to get some quick answers and I am now about to start making it a more useful tool so we can download data from Scribe, add it to the database, and have a sheet that kicks out the Sample ID, date, and HQs. Please let me know if you have a better format in mind for the output table other than the HQs tab in the Excel file.

- I'll send another spreadsheet (Comparison to WQS-08-10-2015 Samples.xlsx) that shows all of the Colorado standards, so let me know if you would like the output to show comparisons to those values (agricultural, domestic water supply, etc.).

Let me know if you have questions or recommendations for improvements. Or should I say when you have questions and suggestions.

Jan

Jan Christner

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